

1 **34. (New)** The system of claim 33 wherein said receiver is for holding, simultaneously for each of
2 said plurality of transmitters, data indicative of an expected time and an expected frequency of at least one
3 future routine transmission.

1 **35. (New)** The system of claim 33 wherein each of said plurality of transmitters includes, in at least
2 a portion of said routine transmissions, data for indicating at least one of: (a) frequency sequence for
3 controlling frequency of said transmission opportunities, and (b) time sequence for controlling time of said
4 transmission opportunities.

1 **36. (New)** The system of claim 33 wherein each of said plurality of transmitters includes, in at least
2 a portion of said routine transmissions, data for indicating at least one of: (a) frequency of at least one future
3 transmission opportunity, and (b) time of at least one future transmission opportunity.

1 **37. (New)** The system of claim 33 wherein said transmission opportunities are synchronized with
2 said routine transmissions.

1 **38. (New)** The system of claim 33 wherein transmission frequency of said routine transmissions is
2 controlled according to a first sequence, and frequency of said transmission opportunities is controlled
3 according to a second sequence, and said first sequence is synchronized with said second sequence.

1 **39. (New)** The system of claim 33 wherein said first time intervals are controlled according to a
2 first sequence, and said second time intervals are controlled according to a second sequence, and said first
3 sequence is synchronized with said second sequence.

1 **40. (New)** A method comprising:
2 transmitting, by each of a plurality of transmitters, intermittently and at various transmission
3 frequencies: (a) routine transmissions, at first time intervals, and (b) urgent transmissions, in response to
4 urgency, at transmission opportunities at second time intervals; wherein said transmissions are independent
5 of any receiver for receiving any of said transmissions and independent of any of said plurality of
6 transmitters, and

7 holding, in a receiver, simultaneously for each of said plurality of transmitters, data indicative of an
8 expected time and an expected frequency of at least one future transmission opportunity.

1 **41. (New)** The method of claim 40 further comprising holding, in said receiver, simultaneously for
2 each of said plurality of transmitters, data indicative of an expected time and an expected frequency of at
3 least one future routine transmission.

1 **42. (New)** The method of claim 40 further comprising, including by each of said plurality of
2 transmitters, in at least a portion of said routine transmissions, data for indicating at least one of: (a)
3 frequency sequence for controlling frequency of said transmission opportunities, and (b) time sequence for
4 controlling time of said transmission opportunities.

1 **43. (New)** The method of claim 40 further comprising, including by each of said plurality of
2 transmitters, in at least a portion of said routine transmissions, data for indicating at least one of: (a)
3 frequency of at least one future transmission opportunity, and (b) time of at least one future transmission
4 opportunity.

1 **44. (New)** The method of claim 40 wherein said transmission opportunities are synchronized with
2 said routine transmissions.

1 **45. (New)** The method of claim 40 wherein transmission frequency of said routine transmissions is
2 controlled according to a first sequence, and frequency of said transmission opportunities is controlled
3 according to a second sequence, and said first sequence is synchronized with said second sequence.

1 **46. (New)** The method of claim 40 wherein said first time intervals are controlled according to a
2 first sequence, and said second time intervals are controlled according to a second sequence, and said first
3 sequence is synchronized with said second sequence.

1 **47. (New)** A telemetry receiver comprising:

2 logic for holding, simultaneously for each plurality of transmission opportunities, data indicative
3 of an expected time and an expected frequency of at least one future opportunity, wherein each said
4 plurality of opportunities is for a different one of a plurality of transmitters, and wherein each of said
5 plurality of transmitters is for transmitting intermittently, at various transmission frequencies: (a) routine
6 transmissions, at time intervals, and (b) urgent transmissions, in response to urgency, at at least one of
7 said opportunities; wherein each of said plurality of transmitters is for transmitting independently of any
8 receiver for receiving any of said transmissions and independently of any other of said plurality of
9 transmitters, and

10 a frequency selective circuit for receiving said transmissions.

1 **48. (New)** The receiver of claim 47 wherein said logic is, further, for holding simultaneously for
2 each of said plurality of transmitters, data indicative of an expected time and an expected transmission
3 frequency of at least one future routine transmission.

1 **49. (New)** The receiver of claim 47 wherein, in operation, for each of said plurality of
2 transmitters, said receiver changes frequency of said frequency selective circuit to said expected
3 frequency of said at least one transmission opportunity at such time relative to said expected time of said
4 at least one transmission opportunity to receive and demodulate, when it occurs, said at least one urgent
5 transmission.

1 **50. (New)** The receiver of claim 47 comprising a frequency error detector to detect a difference
2 between an actual and an expected transmission frequency of said routine transmissions, wherein said
3 receiver utilizes said difference to determine an expected time of a future transmission opportunity.

1 **51. (New)** The receiver of claim 47 wherein said receiver detects a difference between an actual
2 and an expected transmission time of said routine transmissions, and wherein said receiver utilizes said
3 difference to determine an expected time of a future transmission opportunity.

1 **52. (New)** The receiver of claim 47 wherein, said receiver extracts, from at least a portion of said
2 routine transmissions, data indicative of at least one of: (a) pattern of frequency variations for said
3 transmissions opportunities, and (b) pattern of time interval variations for said transmission opportunities.

1 **53. (New)** The receiver of claim 47 wherein, said receiver determines at least one of: (a) time of
2 at least one future transmission opportunity and (b) frequency of at least one future transmission
3 opportunity based on data included in at least one routine transmission.

1 **54. (New)** A plurality of telemetry transmitters, each of which comprises:
2 a circuit for transmitting intermittently and at various transmission frequencies: (a) routine
3 transmissions, at first time intervals, and (b) urgent transmissions, in response to urgency, at transmission
4 opportunities at second time intervals, and

5 logic for controlling frequency and time for said transmission opportunities and said routine
6 transmissions independently of any receiver for receiving any of said transmissions and independently of
7 any other of said plurality of transmitters.

1 **55. (New)** The plurality of transmitters of claim 54 wherein said transmission opportunities are
2 synchronized with said routine transmissions.

1 **56. (New)** The plurality of transmitters of claim 54 wherein each of said plurality of transmitters
2 includes, in at least a portion of said routine transmissions, data indicative of synchronization information
3 for at least a portion of future transmission opportunities.

1 **57. (New)** The plurality of transmitters of claim 54 wherein each of said plurality of transmitters
2 controls transmission frequency and time according to a frequency-time sequence that is different for each
3 of said plurality of transmitters.

1 **58. (New)** The plurality of transmitters of claim 54 wherein each of said plurality of transmitters
2 includes, in at least a portion of said routine transmissions, data indicative of a sequence for controlling at
3 least one of: (a) frequency, and (b) time, for at least a portion of future transmission opportunities.

1 **59. (New)** The plurality of transmitters of claim 54 wherein transmission frequency of said routine
2 transmissions is controlled according to a first sequence, and frequency of said transmission opportunities is
3 controlled according to a second sequence, and said first sequence is synchronized with said second
4 sequence.

1 **60. (New)** The plurality of transmitters of claim 54 wherein said first time intervals are controlled
2 according to a first sequence, and said second time intervals are controlled according to a second
3 sequence, and said first sequence is synchronized with said second sequence.

1 **61. (New)** A plurality of telemetry transmitters, each of which comprises:
2 a circuit for transmitting intermittently and at various transmission frequencies: (a) routine
3 transmissions, at first time intervals, and (b) urgent transmissions, in response to urgency, at transmission
4 opportunities at second time intervals, and

5 logic for including in at least a portion of said routine transmissions data indicative of at least one
6 of: (a) frequency pattern for varying frequency for said transmission opportunities and (b) time pattern for
7 varying said second time intervals;

8 wherein each of said plurality of transmitters is for transmitting independently of any receiver for
9 receiving any of said transmissions and independently of any other of said plurality of transmitters.

1 **62. (New)** The plurality of transmitters of claim 61 wherein said data is based on bits of transmitter
2 identification.

1 **63. (New)** The plurality of transmitters of claim 61 wherein said transmission opportunities are
2 synchronized with said routine transmissions.

1 **64. (New)** The plurality of transmitters of claim 61 wherein each of said plurality of transmitters
2 includes, in at least a portion of said routine transmissions, data indicative of synchronization information
3 for at least a portion of future transmission opportunities.

1 **65. (New)** The plurality of transmitters of claim 61 wherein each of said plurality of transmitters
2 controls transmission frequency and time according to a frequency-time sequence that is different for each
3 of said plurality of transmitters.

1 **66. (New)** The plurality of transmitters of claim 61 wherein transmission frequency of said routine
2 transmissions is controlled according to a first sequence, and frequency of said transmission opportunities is
3 controlled according to a second sequence, and said first sequence is synchronized with said second
4 sequence.